S0V/79-29**-**3**-**5/61

Stereochemistry of the Synthesis of Acetylene With Bicyclic Ketones. Synthesis of Cis-1-ethynyl-1-oxy-6-decalone. Absorption Spectra of the Series of Tert.a-decalols

them that cis-ethynyl- $\alpha$ -decalols synthesized in the same way possess the same chemical properties and the same absorption spectra. There are 3 figures and 12 references, 6 of which are Soviet.

ASSOCIATION: Institut organicheskoy khimii Akademii nauk SSSR

(Institute of Organic Chemistry of the Academy of Sciences,

ÙSSR)

SUBMITTED: January 4, 1958

Card 3/3

ALEKSANDROVA, G.V., inzh.; SOKOLOV, P.N., prof.

Asbestos-cement facing slabs coated with synthetic resins. Stroi. mat. 8 no.7:11-12 Jl '62. (MIRA 15:8) (Asbestos cement) (Resins, Synthetic) (Building-Details)

27906 S/079/61/031/010/006/010 D243/D304

5 3700

AUTHORS: Nazarova, L.M., Kharlamova, Ye. N., Aleksandrova,

G. Ye., and El'tekova, Ye. B.

TITLE:

Interaction of benzole with phenyl derivatives of elements in Group IV of the Periodic Table and of their molecular composition by methods using tagged

atoms

PERIODICAL: Zhurnal obshchey khimii, v. 31, no. 10, 1961,

3308-3311

TEXT: The report was to fill a gap in literature and investigate further the 1:1 molecular combination of triphenylmethane and benzole described previously by Anschütz (Ref. 2: Lieb. Ann., 235, 208 (1886)). The combustion of the molecular compounds and benzole for activity analysis was effected by the method of moist oxidation with a Van Slayk-Fol'kh mixture, the carbon monoxide being absorbed by a saturated solution of barium hydrate which was later filtered, washed and dried. Activity measurements were

Card 1/3

27906 S/079/61/031/010/006/010 D243/D304

Interaction of benzole ...

taken over five minute periods, alternating with background measurements: At least five readings were taken with each specimen. Exchange experiments with benzole were done in glass ampoules.  $\exists (C_6H_5)_4$  (where  $\ni = Sn$ , Si, Pb) was placed in a dry ampoule and benzole added in a molar ratio of 1:15. The ampoule was sealed under nitrogen and heated at 150° until complete solution of  $\exists (C_6H_5)_4$ . After cooling the ampoule was opened, and excess benzole removed by a current of nitrogen. The dry remainder was left for some days in a fume cupboard and then removed to a desiccator for storage. Conclusions: 1) Tetraphenylsilicon, tetraphenyltin and tetraphenylead form stable molecular compounds with benzole which have a general formula  $(\exists (C_6H_5)_4)_7 \cdot C_6H_6$ , whilst triphenylmethane forms a highly unstable 1:2 molecular compound with benzole. 2) A method of determining the molecular compositions of these compounds using tagged C14 atom was suggested. There are 3 tables and 2 references: 1 Soviet-bloc and 1 non-Sviet-bloc.

Card 2/3

27906 S/079/61/031/010/006/010 D243/D304

Interaction of benzole ...

Fiziko-khimicheskiy institut imeni L. Ya. Karpova (Institute of Physical Chemistry imeni L. Ya. Karpov)

SUBMITTED:

ASSOCIATION:

September 24, 1960

Card 3/3

NAZAROVA, L.M.; KHARLAMOVA, Ye.N.; ALEKSANDROVA, G.Ye.; EL'TEKOVA, Ye.B.

Study of the reaction of benzene with phenyl derivatives of the elements of the IV group of the periodic table and the determination of the composition of their molecular compounds by the tracer method. Zhur.ob.khim. 31 no.10:3308-3311 0 61. (MIRA 14:10)

1. Fiziko-khimicheskiy institut imeni L.Ya.Karpova.
(Benzene) (Organometallic compounds)

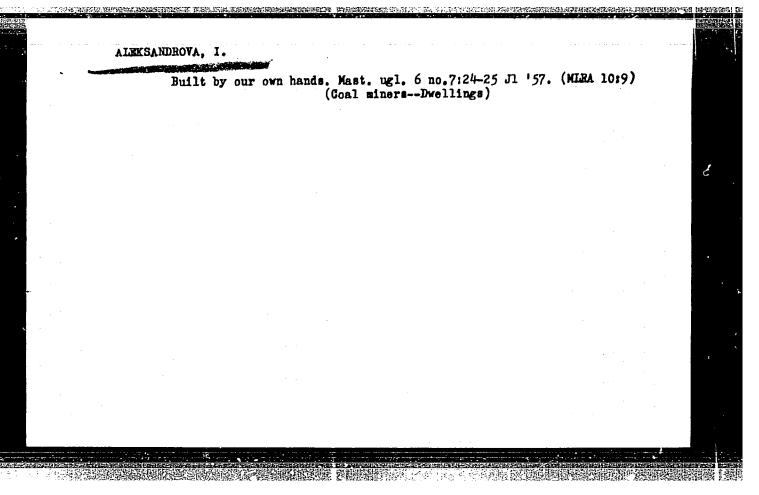
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NAZAROVA, L.M.; ALEKSANDROVA, G.Ye.

Relationship between the capacity of organometallic compounds for exchanging organic groups and their catalytic activity in polymerization. Vysokom.soed. 3 no.12:1822-1826 D '61. (MIRA 15:3)

 Fiziko-khimicheskiy institut imeni L.Ya.Karpova. (Organometallic compounds) (Polymerization) (Catalysis)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000100910003-7"



Aleksandrova, I. A. -- "Operative Treatment of a Faralytic Heel of the Foot (Sequelae of Infantile Spinal Paralysis)." Khar'kov Medical Inst., Khar'kov, 1955 (Dissertation for Degree of Doctor of Medical Sciences.)

SO: Knizhnaya Letopis', No. 23, Moscow, Jun. 55, ppS7-104

33981

\$/062/62/000/002/006/013 B117/B138

5.3630

AUTHORS:

Arbuzov, B. A., Vinokurova, G. M., and Aleksandrova, I. A.

TITLE:

Synthesis of bifunctional organophosphorus compounds,

1. Addition of phenyl phosphine to unsaturated compounds

PERIODICAL:

Akademiya nauk SSSR. Izvestiya. Otdeleniye khimicheskikh

nauk, no. 2, 1962, 290-295

TEXT: It had been shown previously (Ref. 3: B. A. Arbuzov, G. M. Vinokurova, and I. A. Perfil'yeva, Dokl. AN SSSR, 127, no. 6) that phenyl phosphine adds to acrylate, methacrylate, and allyl alcohol under formation of bifunctional adducts (yield 50-70 %). In the present investigation the addition of phenyl phosphine, allyl acetate, and 2-methyl-5-vinyl pyridine was performed by heating the reagents both without catalyst and with azo-bis-isobutyric acid dinitrile. In the absence of the catalyst, phenyl phosphine quite readily adds to methyl vinyl pyridine (adduct 50 %), but with far more difficulty to allyl amine and allyl acetate. In the presence of azo-bis-isobutyric acid dinitrile, the yield of adducts could be increased to 60 and even 80 per cent. All

Card 1/3

CIA-RDP86-00513R000100910003-7" **APPROVED FOR RELEASE: 03/20/2001** 

33981

s/062/62/000/002/006/013 B117/B138

Synthesis of bifunctional ...

language publications read as follows: Ref. 2 M. M. Kaechut, J. Hechenbleikner et al., J. Amer. Chem. Soc. 81, 1103 (1959); Ref. 4 G. M. Kosolapoff, R. F. Struck, Proc. Chem. Soc., October (1960).

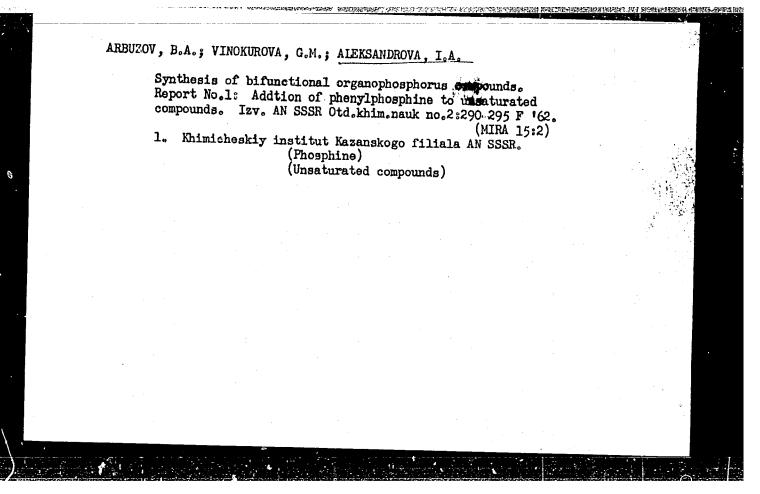
ASSOCIATION: Khimicheskiy institut Kazanskogo filiala Akademii nauk SSSR

(Chemical Institute of the Kazan' Branch of the Academy of

Sciences USSR)

July 14, 1961 SUBMITTED:

Card 3/3



EL'YASHBERG, F.Ye., starshiy nauchnyy sotrudnik; ALEKSANDROVA, I.A., kand. med. nauk

Disability analysis following fractures of the femur and leg bones; based on data of the Medical Expert Commission for Work Capacity Evaluation and of the M.I. Sitenko Ukrainian Institute of Orthopedics and Traumatology. Ortop., travm. i protex. no.9:67-72 162.

(MIRA 17:11)

1. Iz Ukrainskogo instituta ortopedii i travmatologii imeni Sitenko (dir. - chlen-korrespendent AMN SSSR prof. N.P. Novachenko). / dres avtorov: Khar'kov, Pushkinskaya ul., d.80, Institut ortopedii i travmatologii.

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000100910003-7"

ALEKSANDROVA, I.A., kand. med. nauk

Malunited malleolar fractures and their treatment. Vest. khir. no.12:53-58 162. (MIRA 17:11)

1. Iz Ukrainskogo nauchno-issledovatel skogo instituta ortopedii i travmatologii imeni prof. M.I. Sitenko (dir. - prof. I.P. No-vachenko).

ALEKSANDROVA, I.B.; BATALOVA, L.V.

SATURATE PROPERTY OF THE PROPE

Effect of vitamin B<sub>6</sub> on cholesterol metabolism; effect of prolonged vitamin B<sub>6</sub> administration on the cholesterol content of organs and tissues in rabbits and rats. Vop. pit. 22 no.5:43-46 S-0 16%. (MIRA 17:1)

1. Iz kafedry biokhimii (zav. - dotsent V.I. Yakubovskaya) Meditsinskogo instituta, Karaganda.

BURITANCE, 1.7. ALEKSAMBUTA, 1.6.; SMBBYUTA, V.V.

Revenite from a phonacite deposit. Sap. Vaca.min.ob.va 94
no. 57603-507 165. (MIR: 15:13)

1. Depotite They chien Vescommanago mineralogicaskago obehchestva (for Kuprlyanov).

ALEKSANDROVA, I.L.; VZOROVA, S.I.; BRAANDES, R.I.; GERASIMOV, I.F.;

DARINSKIY, Anatoliy Viktorovich; KOMLYAKOVA, V.I.; KOSHELEVA,

Ye.S.; LEVINA, B.M.; LIZOGUB, V.K.; RODIONOVA, F.A., red.; TA
TURA, G., tekhm. red.

[Reader on the economic geography of the U.S.S.R.] Khrestomatiia po ekonomicheskoi geografii BSSR; posobie dlia uchitelei. Moskva, Gos. uchebno-pedagog. izd-vo M-va prosv. RSFSR, 1961.

342 p. (MIRA 14:8)

(Geography, Economic)

RYPKINA, N.M.; ALEKSANDROVA, I.M., redaktor; SACHEVA, A.I., tekhnicheskiy redaktor

[How to protect a child from diphtheria] Kuk uberechi rebenka ot sabolevaniia difteriei. Moskva, Gos. izd-vo med. lit-ry, 1954. 19 p. (Children-Diseases)

(MIRA 7:10)

(Diphtheria)

ALEKSANDROVA, I.M.; ZYKOV, D.D.

True boiling point curves of heavy petroleum products. Khim. i tekh. topl. i masel 9 no.12:39=43 D '64. (MIRA 18:2)

1. Moskovskiy institut khimicheskogo mashinostroyeniya.

ALEKSANDROVA, I.N., Cand Med Sci -- (diss) "Data for the pathomorphology of herritas of the spinal column."

Sverdlovsk, 1958, 19 pp including cover (Sverdlovsk State Med Inst) 200 copies (KL, 50-58, 127)

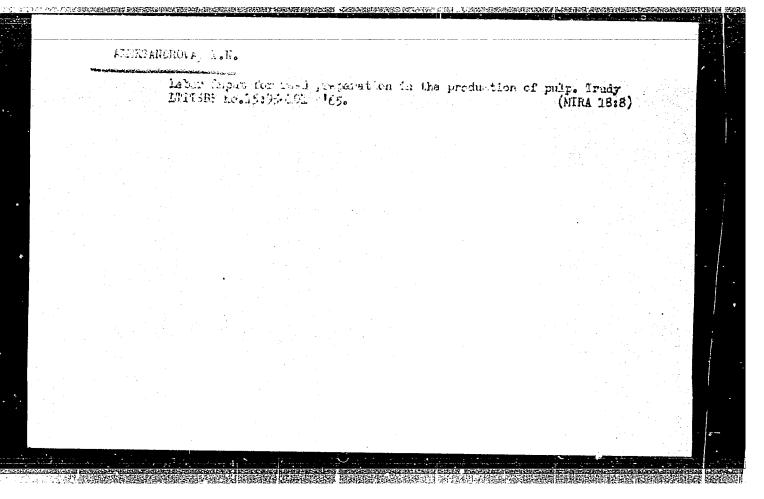
- 105 -

GORBOVSKAYA, T.G., ALEESANDROVA, I.N., OSADCHAYA, Ye.I. (Kiyev)

Role of trichomonas hominis in the course of bacillary dysentery.
Yrach.delo no.11:1191-1193 N'58 (MIRA 12:1)

1. Institut infektsionnykh bolezney AMN SSSR.
(TRICHOMONAS)
(DYSENTERY)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000100910003-7"



ALEKSANDROVA, I. F. AID P - 3746 Subject : USSR/Chemistry Card 1/1 Pub. 152 - 10/22 : Poray-Koshits, A. Ye., B. A. Poray-Koshits, L. S. Efros, M. I. Krylova, D. A. Luvshits, K. Yu. Mar'yanovskaya Authors I. P. Aleksandrova, and K. Ya. Uliman Title : Synthesis of some aromatic amines with trifluoromethyl groups and study of them as products for ice dyeing : Zhur. prikl. khim. 28, 9, 969-975, 1955 Periodical Abstract The preparation of benzotrichloride and benzotrifluoride and the nitration of benzotridluorides are described in detail. 16 references, 6 Russian (1863-1950).

Institution

Submitted

: None

: D 25, 1953

# ALEKSANDROVA, I.P.

Study of X-ray absorption spectra of acetylacetonates of transition metals. K-absorption spectra of copper in acetylacetonate, cupric oxide, and cuprous oxide. Zhur.strukt.khim. 4 no.2:231-234 Mr-Ap 163. (MIRA 16:5)

1. Institut fiziki Sibirskogo otdeleniya AN SSSR, Krasnoyarsk. (Copper-Spectra) (X-ray spectroscopy)

ALEKSANDROVA, 1.P.; SHIGORIN, D.N.; SKOLDINOV, A.F.

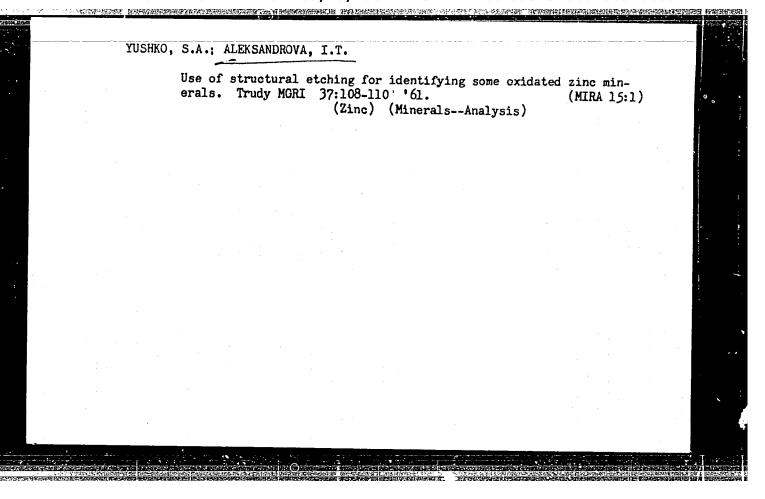
X-ray spectra of quasi-aromatic inner-complexes of copper.
Zhur. fiz. khim. 38 no.5:1203-1209 My '64. (MIRA 18:12)

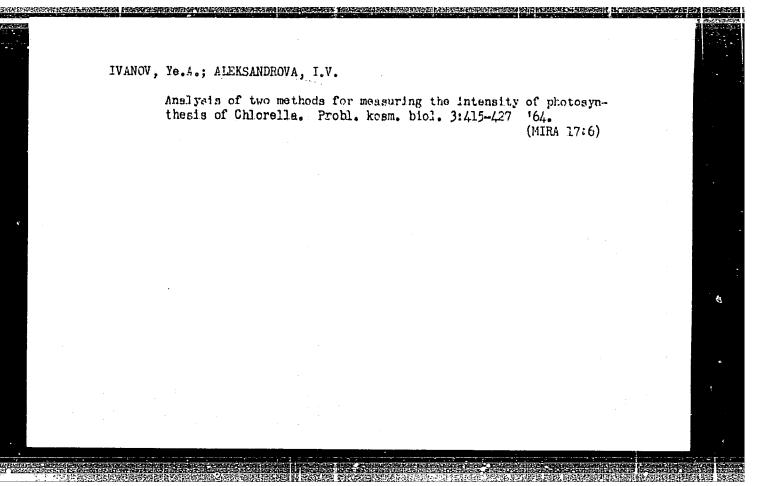
1. Fiziko-khimicheskiy institut imeni Karpova. Submitted
June 8, 1963.

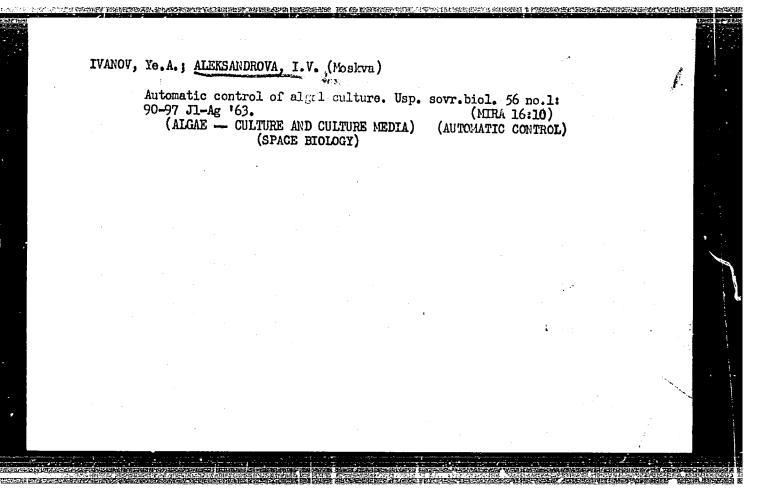
VATESHTEIN, E.Ye.; ALEXSANDROVA, I.T.; TURANSKAYA, N.V.

Hare earth metals in gadolinites from beds of different genetic types. Geokhimia no.6:498-505 '60. (MIRA 13:10)

1. Vsesoyusnyy institut mineral'nogo syr'ya i Institut geokhimii i analiticheskoy khimii im. V.I.Varnadskogo AN SSSR, Moskva. (Gedolinite) (Rare earth metals) (Yttrium)







ACCESSION NR: AT4037714

8/2865/64/003/000/0449/0459

AUTHOR: Ivanov, Ye. A.; Aleksandrova, I. V.

TITIE: On the problem of automatic control of the process of algae cultivation

SOURCE: AN SSSR. Otdeleniye biologicheskikh nauk. Problemy\* kosmicheskoy biologii, v. 3, 1964, 449-459

TOPIC TAGS: algae cultivation, air regeneration, Chlorella, algae, closed ecological system, manned space flight, automatic control

ABSTRACT: The problem of controlling the process of photosynthesis in unicellular algae (chiefly Chlorella) for the regeneration of air on spaceships during prolonged space flight is studied. Because of the small size and weight of the regenerating system, the rate of photosynthesis must by very high. The rate of photosynthesis I is a function of such parameters as the intensity and spectral composition of the light to which the algae are exposed E, the temperature of the suspension  $\vee$  the quantity of mineral salts dissolved  $\triangleleft$ , and time (I= I(E,  $\vee$ ,  $\triangleleft$ , t, ...). To control photosynthesis, an optimal self-adaptive control system which determines and stabilizes the parameters of the growth of algae to assure an optimal value

Card 1/3

ACCESSION NR: AT4037714

of the function I. The mathematical theory of optimal control is applied to the solution of this problem. With certain simplifying assumptions, equations and the block diagram for the system of optimal control of the rate of photosynthesis of Chlorella are obtained. Transfer functions for the system are derived on the basis of which various properties of the control system are analyzed. It is shown that the optimal system for controlling the process of photosynthesis is an astatic, first-order system with respect to extremal values of I. The results of the studied version of controlling the process of photosynthesis of Chlorella show that to determine the block diagram and parameters, extensive biological studies are necessary. In the first place, rumerous experiments must be carried out to determine the dependence of the rate of photosynthesis on the given number of parameters, under the assumption that other parameters have constant values which are close to extremal ones. Such experimental results make it possible to establish basic characteristics of the control system. Of no less importance is the study of the dynamic properties of algae. On the basis of these dynamic properties the smability and rapidity of action of a control system can be obtained. To determine the dynamic errors of the control system, the rate of change in time of the rate of photosynthesis, assuming that other parameters are constant, must be determined. The authors are conducting a series of biological experiments to

Card 2/3

ACCESSION NR: AT4037714

establish the relations mentioned above, but a great deal of preparatory work must be completed before an automatic system for controlling the process of photosynthesis can be designed.

ASSOCIATION: none

SUBMITTED: 00

ENCL: 00

SUB CODE: LS. MA

NO REF SOV: 003

OTHER: 003

Card 3/3

ACCESSION NR: AT4037711

5/2865/64/003/000/0415/0427

AUTHOR: Ivanov, Ye. A.; Aleksandrova, I. V.

Second Constitution of the Constitution of the

TITLE: Analysis of two methods used in measurements of the photosynthetic rates

SOURCE: AN SSSR. Otdeleniye biologicheskikh nauk. Problemy\* kosmicheskoy biologii, v. 3, 1964, 415-427

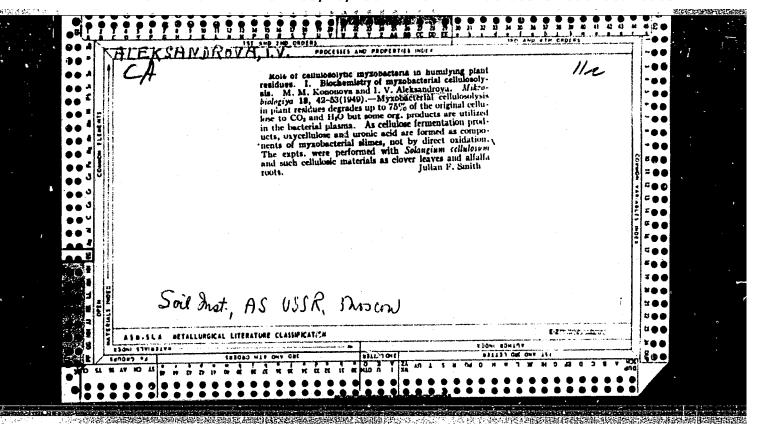
TOPIC TAGS: photosynthesis, closed ecological system, manned space flight, air regeneration, algae, Chlorella, capillary manometry, polarography

ABSTRACT: Automatic regeneration of the atmosphere on board spaceships can be accomplished within a closed ecological system. An algae culture will be an essential component of such a system. The rate of photosynthesis in an algae culture constitutes a basic controlled parameter which can be measured by capillary-manometric or polarographic methods. Mathematical analysis has shown the polarographic method offers greater advantages if a chlorella culture is used.

ASSOCIATION: none

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APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000100910003-7"



ALEKSANDROVA, I. V.

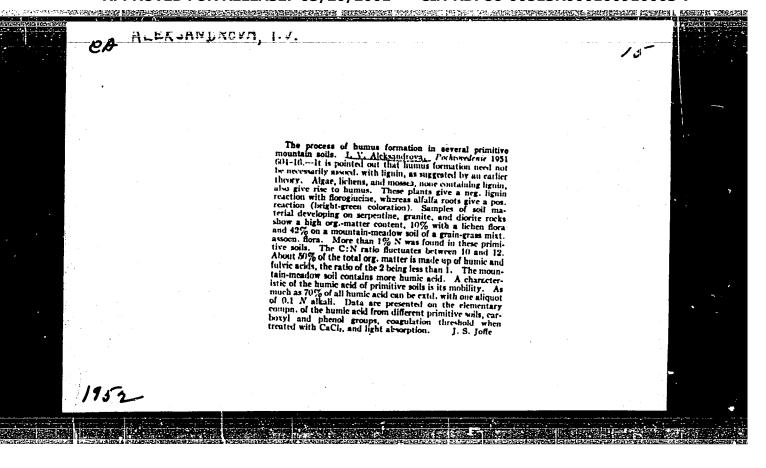
"The Process of Humus Formation in Primitive Soils." Sub 25 Apr 51, Soil Inst, Acad Sci USSR.

Dissertations presented for science and engineering degrees in Moscow during 1951.

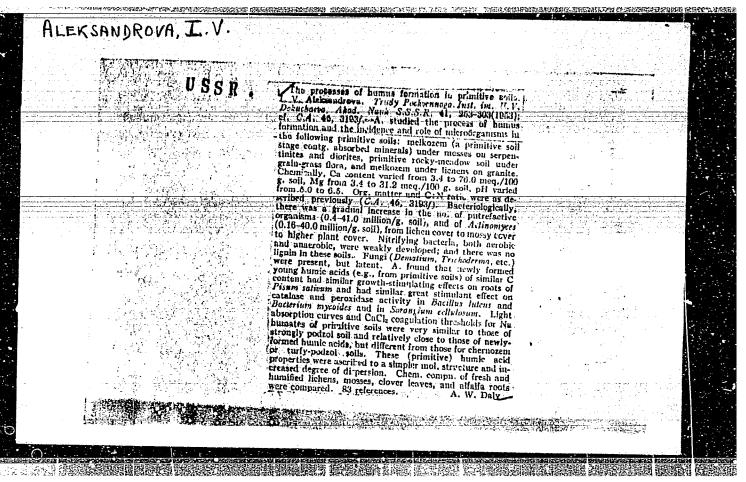
SO: Sum. No. 480, 9 May 55

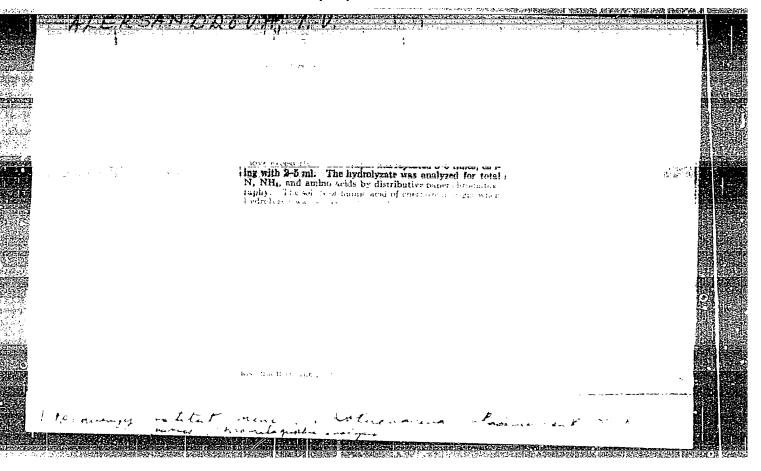
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	Ussr:	
	Utilization of Jumie substances by soil micro-organisms, J. V. Aleksandova (Pochecerdenie, 1953, No. 6, 21-30).—Soil organisms  side to utilize humic matter as sole source of C grew better on media	
	Utilization of lumio substances by soil infero-organisms. J. V. Aleksandova (Pocheceedenie, 1953, No. 6, 21-30),—Soil organisms.  **Solid transfer lumic matter as sole source of C grew better on media containing cosily available org. C. Sulphato-reducing organisms ean utilize hunde acids. Water-soil, org. compounds present in sulmetz-soils are widely distributed in stony steppe soils.  Soils & Pert. (A. G. P.).	
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USSR/Soil Science - Biology of Soils.

Abs Jour : Ref Zhur Biol., No 22, 1958, 100026

Author : Kononova, M.M., Aleksandrova, I.V.

Inst : Academy of Sciences USSR

Title : Biochemistry of the Humus-Formation Process and Some

Problems of Plant Nutrition.

Orig Pub : Izv. AN SSSR. Ser. biol., 1958, No 1, 74-88

Abstract : The process of humus formation was studied with the aid

of a culture of the funci Aspergillus niger and Penicillium (sp.) (P). The nutrient medium contained the mineral salts: KH2PO4, KCl, MGSO4, FeSO4, ZnSO4 and NaNO3. The only organic compound was glucose. In the process of developing the funci in the nutrient medium, determination of the pH, the quantity of residual sugar (accor-

ding to Bertran), the albuminous N (precipitated

Card 1/3

USSR/Soil Science - Biology of Soils.

J

Abs Jour : Ref Zhur Biol., No 22, 1958, 100026

nature. The author's opinion on the biochemistry of the humus-formation process and the part played by the soil organic substances in plant nutrition are set forth. -- B.A. Rudenko

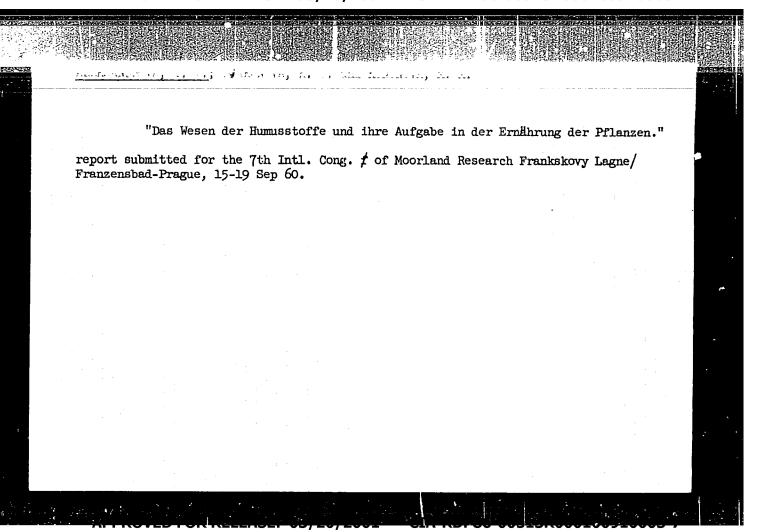
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Card 3/3

# APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000100910003-7"

Methods of determining the activeness of some soil ferments. Pochvovedenie no.9:73-77 S '59. (MIRA 13:1)

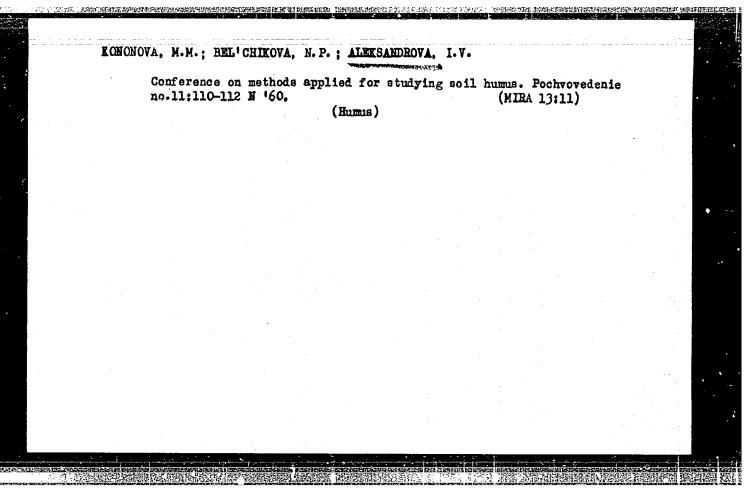
1. Pochvennyy institut im. V.V. Dokuchayeva Akademii nauk SSSR. (Soils--Analysis) (Soil biology)



#### ALEXSANDROVA, I.V.

Methods of investigating the qualitative composition of organic substances in soil solutions. Pochvovedenie no.11:85-87 N '60. (NIRA 13:11)

1. Pochvennyy institut im. V. V. Dokuchayeva Akademii nauk SSSR. (Soils-Analysis)

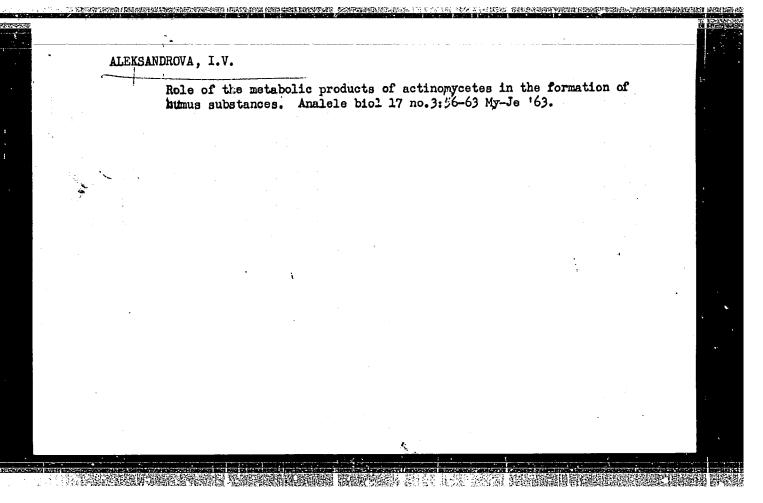


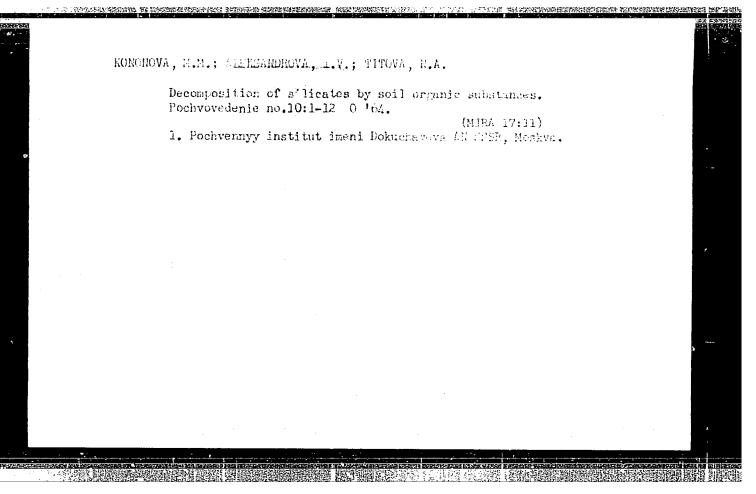
ALEAS	SANDROVA, I.V.	
	Role of the metabolism products of actinomyces in the formation of humus substances. Pochvovedenie no.12:8-14 D '62.  (MIRA 16:2)	
	1. Pochvennyy institut imeni V.V.Dokuchayeva. (Actinomyces) (Humus)	<i>,</i> •

ALEKSANDROWA, I.V.; DIMO, V.N.; MURATOVA, V.S.; NOGINA, N.A.;
PRESNYAKOVA, G.A.; RAZORENOVA, N.A.; TSERLING, V.V.; SHKONDE, E.I.

Second Congress of Soil Science Delegates. Pochvovedenie no.1:93-102 Ja \*63. (MIRA 16:2)

(Soil research-Congresses)





ALEKSANDROVA, I. V.

ALEKSANDROVA, I. V. -- "Propagation of Pheasants in the Southern Ukraine."
Sub 13 Oct 52, Moscow Fur and Pelt Inst (Dissertation for the Degree of Candidate in Biological Sciences).

SO: Vechernaya Moskva January-December 1952

ALEKSANDROVA, I. V., and KONONOVA, M. M. (URSS
"La biochimie des processus de la formation des matières humiques"

report submitted for the 6th Intl. Congress of Soil Science, Paris, France 28 August 1956

Materials on moose populations in the Oka Terrace Preserve and Moscow Province. Trudy PriokTerr.zap. no.1:144-156 '57.  (MIRA 12:7)  (Oka Terrace Preserve—Moose) (Moscow Province—Moose)	The state of the s	ROVA, I.V.	on moore namulations t	m Alia Olivi (	Dannaa Dr		ì
(Oka Terrace PreserveMose) (Moscow ProvinceMose)		Moscow Pro	vince. Trudy PriokTe	rr.sap. no	.1:144-156	rve and 57 <sub>°</sub>	
		(Oka T	errace Preserve loose	) (Moscow	(MIRA 12 ProvinceMo	:7) ose)	
						•	

Alexandrova, I.V., kandidat biologicheskikh nauk.

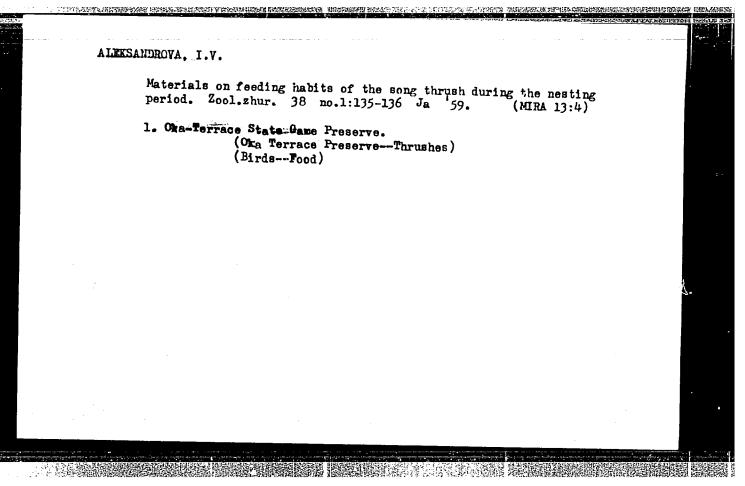
Attracting the gray flycatcher (Myscicapa striata) to artificial nests, Biol. v shkole no.3:90 My-Je '57. (MIRA 10:6)

1. Prioksko-Terrasnyy sapovednik. (Prioksko-Terrasnyy State Preserve--Passeres) (Birds, Protection of)

TEKSANDROVA, I.V., kend.biol.nauk

Ittracting birds inhabiting open nests. Biol. v shkole 6:55-56
N-D '56. (MIRA 11:11)

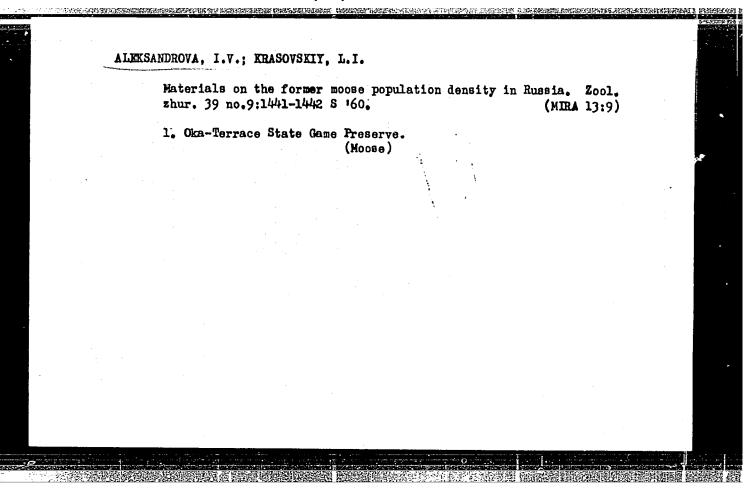
1. Prioksko-Terrasnyy sapovednik Moskovskoy oblasti.
(Ota Terrace Preserve—Thrushes)
(Birds—Eggs and nests)

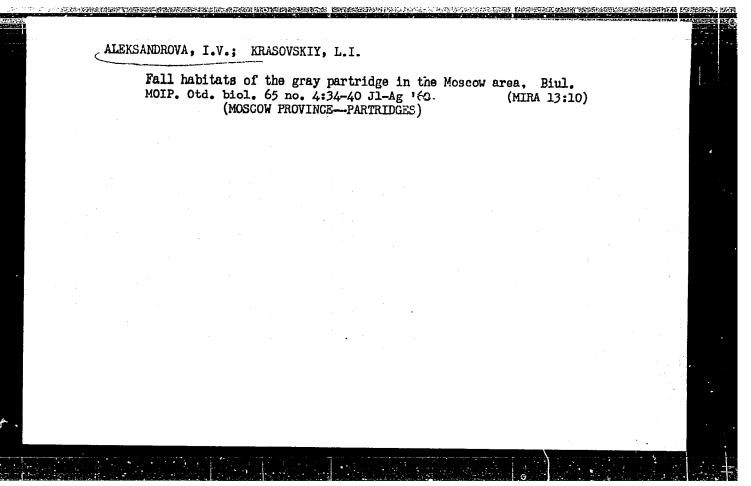


-ALEKSANDROVA, I, V., kand.biol.nauk

Some problems in studying the biology of moose. Biol.v shkole no.5:79-80 S-O '591 (MIRA 13:8)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut zhivotnogo syr'ya i pushniny, g.Xirov. (Moose)





ALEKSANDROVA, I.V.; KRASOVSKIY, L.I.

Winter feeding of moose in Kirov Province. Zeol.

zhur. 40 no.8:1246-1250 Ag '61. (MIRA 14:8)

1. All-Union Research Institute of Animal Raw Material and Pelts (Kirov).

(Kirov Province--Moose) (Animals, Food habits of)

#### ALEKSANDROVA, I.V.

Instances of intensive invasion of elks by Paramphistomum cervi in Kirov Province. Zool. zhur. 41 no.5:780-782 My '62.

(MIRA 15:6)

1. All-Union Pesearch Institute of Animal Raw Material and Pelts, Kirov.

(Kirov Province—Paramphistomum) (Parasites—Elk)

GEORGIEV, Zh. M.; ALEKSANDROVA, K.; NIKOLOV, D. Khr.

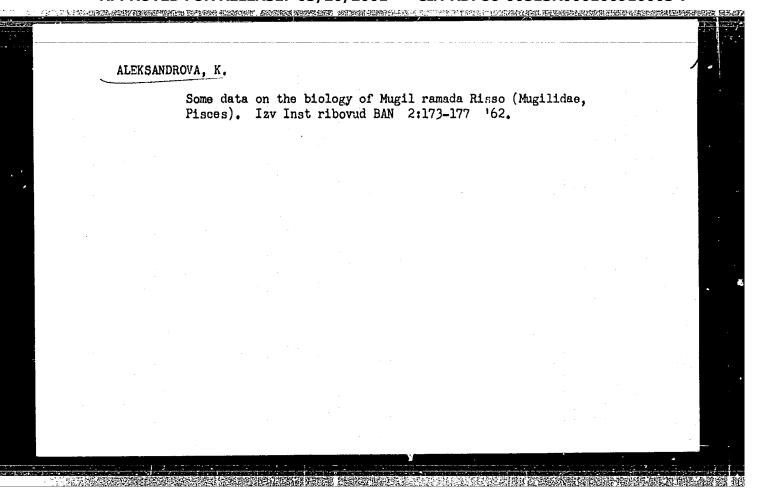
Observation on the propagation of fishes near the Bulgarian Black Sea coast. Izv Zool inst BAN 9:255-292 '60.

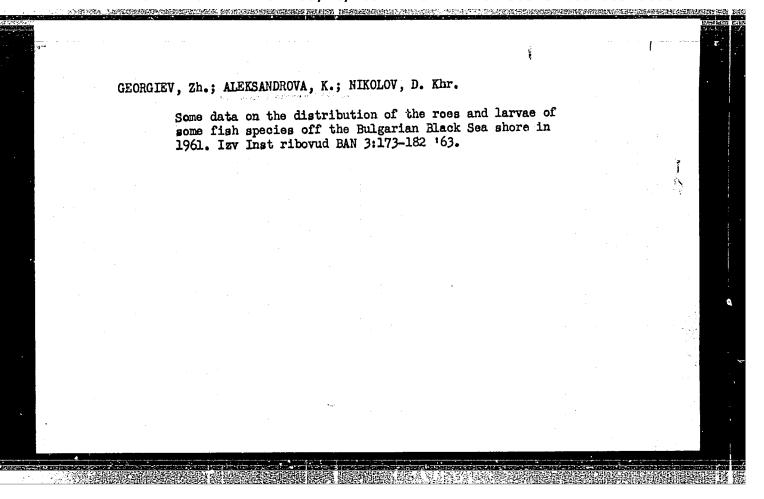
(EEAI 10:9)

(Bulgaria—Fishes) (Black Sea)

GEORCIEV, Zh.; ALEKSANDROVA, K.; NIKOLOV, D.Khr.

Quantitative distribution of the roes and larvae of the anchovy
Engraulis encrasicholus ponticus Alex., and the scad Trachurus
mediterraneus ponticus Aleev in the Bulgarian territorial
waters in 1960. Izv Inst ribovud BAN 2:109-120 '62.

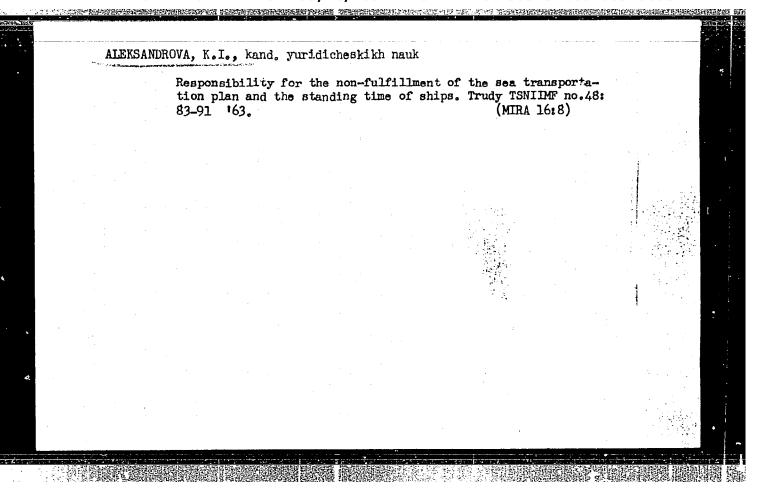


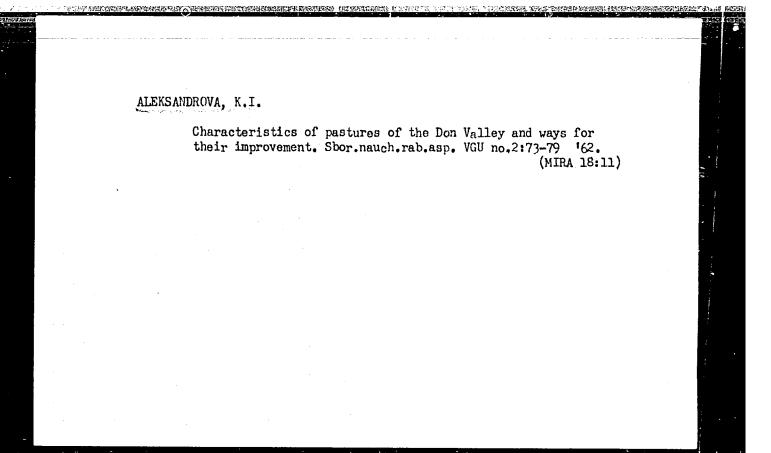


ALEKSANDROVA, Koika

Growth of Mugil saliens Risso along the Bulgarian shore of the Black Sea. Izv Inst ribovud BAN 5:117-128 '64.

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000100910003-7"





ALEKSANDROVA, K.I., kand. yuridioheskikh nauk

Errors in navigation and management under Soviet maritime law.

Inform. sbor. TSNIIMF no.110 Mor. pravo i prak. no.23:10-17 '63.

(MIRA 18:9)

MARKIA	DROVA, KCP.	
antina sa artina ny isany ara-		
Vop.	"Acidity and Fermentations of the Stomach Contents in Children with Ri Ped. i Okhran. Mater. i Det., 16, No.6, 1948	gkets,"
Chai	r Hospital Pediatrics, Leningrad State Pediatric & Med. Inst.	

PENCHUL, A.; ALEKSANDROVA, L.

Use of a water-oil emulsion for protecting marine diesel engine cooling systems from corrosion. Mor. flot 18 no.7:16 Jl '58.

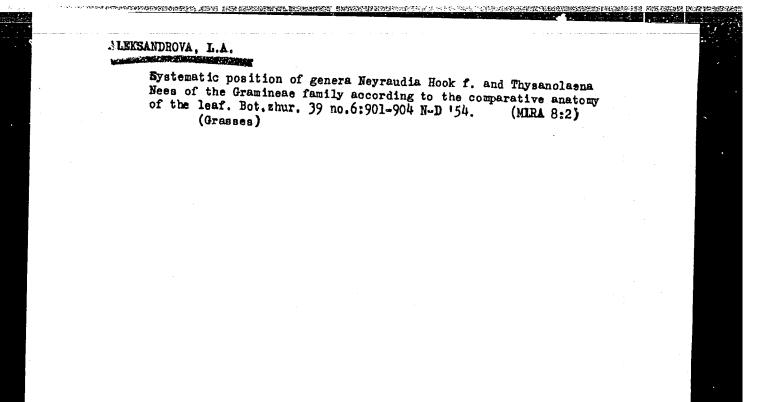
(MIRA 11:7)

1. Nauchno-issledovatel'skiy institut goryuche-smazochnykh materialov. (Marine diesel engines--Cooling)

#### EPSHTEYN, Ya.A.; ALEKSANDROVA, L.A.

Mechanism of basic pigment secretion in the gastric mucous membrane. Bio-khimiia 18 no.6:701-705 N-D '53. (MLRA 6:12)

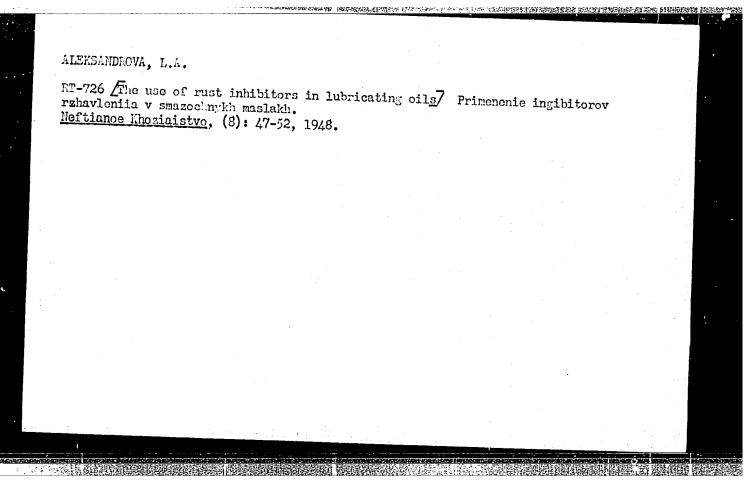
1. Kafedra biokhimii Stalinabadskogo medinstituta.
(Pigments) (Mucous membrane)



FILIPPOV, I.N.; GUNIN, I.V.; Prinimali uchastiye: DABAGYAN, N.P.; CHETVERIKOV, A.V.; MIROSHNICHENKO, V.G.; FRADIN, M.D.; PAVLOVSKIY, V.Ya.; FIL'CHAKOVA, V.A.; ALEKSANDROVA, L.A.; DUEROVIN, F.S.

Investigating the buckling of webs on lightweight I-beams. Stal' 23 no.10:915-918 0 '63. (MIRA 16:11)

1. Ukrainskiy institut metallov. 2. Ukrainskiy institut metallov (for Dabagyan, Chetverikov, Miroshnichenko). 3. Zavod "Azovstal" (for Fradin, Pavlovskiy, Filychakova, Aleksandrova, Dubrovin).



ENERGY STREET, STREET,

ALEKSAN DROVA, L.A.

AID P - 288

Subject

USSR/Engineering

Card

1/2

Author

: Losikov, B. V., Makasheva, O. P. and Aleksandrova, L. A.

Title

Mechanism of action of anti-corrision additives to

mineral oils

Periodical

: Neft. Khoz., v. 32, #4, 65-72, Ap 1954

Abstract

The authors present the results of their experiments on the effect of temperature and additives on the formation of protective film over the surface of copper-lead specimens. Additives of Soviet types H3 and H4 were used in the aviation lubricating oil of types PC-13, AZNII-TSIATIM-1 (Azerbaydzhan Scientific Research Institute - Central Scientific Research Institute of Aviation Fuels and Oils - 1). Copper-lead specimens of small plates or of powdered forms were subjected to tests. The mechanism of the formation of protective film is described and presented in 6 charts and 4 tables based on test results.

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000100910003-7"

AID P - 988

Neft. Khoz., v. 32, #4, 65-72, Ap 1954 (additional card)

Card

: 2/2

Institutions:

Azerbaydzhan Scientific Research Institute (AzNII) and the Central Scientific Research Institute of Aviation

Fuels and Oils (TsIATIM)

Submitted

No date

CHUMACHENKO, Ivan Ivanevich; POPOV, A.A., redakter; ALEKSANDROVA, L.A., redakter; VOLKOVA, tekhnicheskiy redaktor.

[Internal combustion engines for ships] Sudevye dvigateli vautreamege sgeraniia. Meskva, Ind-ve "Herekei transport." Pt.1. [Description of struction of marine engines] Opisanic kenstruktsii sudevykh dvigatelei. 1955.319 p.

(Marine engines)

(Marine engines)

#### CIA-RDP86-00513R000100910003-7 "APPROVED FOR RELEASE: 03/20/2001

ALEKSANDROVA, L.A.

AID P - 5077

Subject

: USSR/Engineering

Card 1/2

Pub. 128 - 6/26

Authors

Losikov, B. V., Prof., Dr. Tech. Sci., and L. A.

Aleksandrova, Kand. Tech. Sci.

Title

Corrosion inhibitors in lubricants for intermittently

running machines.

Periodical

: Vest. mash., 5, 12-15, My 1956

Abstract

Corrosion protection of machine parts is very important, especially when the machine is not running. Various admixtures, called corrosion inhibitors, are added to lubricants for improving their protective properties. The authors analyzed under laboratory conditions the effectiveness of different corrosion inhibitors. The method of the "moisture chamber" (GOST 4699-49) was method of the "moisture chamber" (GOST 4699-49) The tests are described and other testing methods

are discussed. The results are compared with results

\$/081/62/000/005/076/112 B162/B101

11.0140

AUTHORS:

Losikov, B. V., Smirnov, M. S., Aleksandrova, L. A., Rubinshteyn, I. A., Ocheretyanyy, I. T., Dneprov, V. N.

TITLE:

Application of neutralizing substances in engines working

on high-sulfur diesel fuels

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 5, 1962, 526, abstract 5M200 (Sb. "Prisadki k maslam i toplivam". M., Gostoptekhizdat, 1961, 381-388)

TEXT: Results of tests on diesel engines type 19 -10.5/13 ((1Ch - 10.5/13), 2% - 8.5/11 (2Ch - 8.5/11), 11T-9 - 3 (IT - 9 - 3), 3% - 6 (3D - 6), 3% - 50% (M - 50F), and 2% - 100 (2D - 100) working on fuels with a sulfur content of 1.0 to 1.6% with ammonia gas fed to the combustion chamber of the engines in an amount of 0.08 - 0.14% by weight with respect to the fuel are given. It is shown that ammonia is a highly efficient means of reducing corrosion wear of the engines, preventing the formation of deposits: and the burning of piston rings. It is found that the action

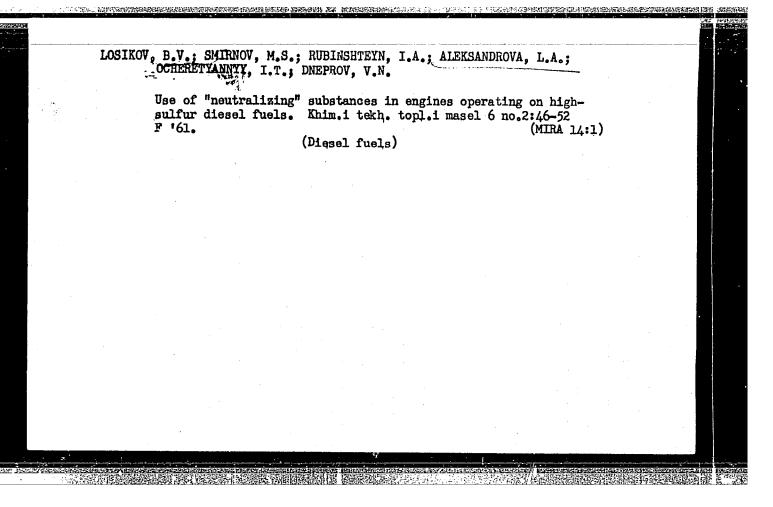
Card 1/2

S/081/62/000/005/076/112
Application of neutralizing ... B162/B101

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of ammonia is linked with its ability of slowing down the formation of sulfuric anhydride during the combustion of the sulfur contained in the fuel. An explanation is given of the mechanism by which the ammonia acts on the basis of the idea of radical-chain mechanism of oxidation of sulfur compounds. [Abstracter's note: Complete translation.]

Card 2/2



s/065/61/000/008/007/009 E194/E135

11.0170

AUTHORS:

Losikov, B.V., Fat'yanov, A.D., Mikulin, Yu.V.,

Aleksandrova, L.A., Koznov, G.G., and Berezina, R.M.

The use of residual fuels in gas turbines

TITLE: PERIODICAL: Khimiya i tekhnologiya topliv i masel,

1961,6, No. 8, pp. 47-53

The mechanism of deposit formation and corrosion in gas turbines using residual fuels containing vanadium and sodium is discussed. Possible methods of avoiding the vanadium corrosion include injection into the combustion chamber of substances which react with vanadium pentoxide and the more convenient use of fuel The object of the present work was to check, on typical materials used in gas turbines, the corrosivity of corrosion products of high-sulphur marine heavy-fuel grade 0 -5 (Fs-5) and to study the use of additives to reduce this corrosion. The tests were made on a model combustion chamber which had previously been used for testing high sulphur distillate fuels but for the present work fuel heating equipment was provided. test samples were made up as plates of  $40 \times 25 \times 4$  mm which were Card 1/4

The use of residual fuels in gas ....

26522 \$/065/61/000/008/007/009 E194/E135

placed in the path of flow of the combustion products. was assessed by change in weight after the specimen had been exposed in the chamber and cleaned by electrolytic treatment in a solution of sodium carbonate and sodium hydroxide. It was found that corrosion is most intense in the first 2 - 3 hours and that it has reached a practically constant value at the end of 5 hours so that there was no need to continue the tests longer than this. The reference fuel was grade  $\Phi$ -12 (F-12) containing 130 parts per million sodium and no vanadium. The vanadium content of the other fuels ranged from 16 to 35 parts per million vanadium. tests were made with nickel base alloys 314-435 (EI-435) and 94-602 (EI-602) which show little vanadium corrosion at temperatures below 650-700 °C; however, at higher temperatures the rate of corrosion rises rapidly. Alloys based on iron such as grade 34-481 (EI-481) are much more affected by vanadium than are the nickel alloys, particularly at the higher temperatures. The higher the vanadium content of the fuel, the lower the temperature at which the rising inflection of the corrosion curve occurs. At a gas temperature of 800-850 °C appreciable corrosion is observed with 10 ppm vanadium in the fuel, whereas at 630-680 °C corrosion Card 2/4

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26522
The use of residual fuels in gas .... S/065/61/000/008/007/009
E194/E135

increases appreciably only with fuel of 30 ppm vanadium or more. In general, at temperatures of 650-850 °C the combustion products of fuels containing 14 - 35 parts per million vanadium increased the rate of corrosion by a factor of 4 to 15, depending on the alloy used. The effect of additives was checked on fuel grade F-12 (no vanadium) and Fs-5 containing 27 parts per million vanadium and 9 parts per million sodium using alloys EI-602, EI-481 and The additives used were organic compounds of magnesium that are readily soluble in heavy fuels but differing in the structure of the organic radical. The use of additive to the extent of 0.2% weight of fuel greatly reduced vanadium corrosion. shown that some organic magnesium compounds are much more effective than others. It is concluded that with 30 parts per million vanadium in the fuel the use of 0.016% magnesium in the form of soluble organic compounds practically completely prevents vanadium Tests were also made with injection into the combustion chamber of ammonia to the extent of 0.5% by weight of the fuel. This also practically prevents vanadium corrosion of the nickel and iron alloys within the temperature range tested.

Card 3/4

26522 \$/065/61/000/008/007/009 E194/E135

The use of residual fuels in gas ...

Use of ammonia at the rate of 0.2% weight is less effective. The best results were obtained when the ammonia was injected before the combustion zone. A further advantage of using soluble compounds as against the suspensions sometimes used is that erosive wear of the turbine blades is reduced. A mechanism of action of the additives is suggested.

There are 6 figures, 1 table and 14 references: 5 English and 11 Soviet (including 3 translations from Proceedings of World Petroleum Congress VII). The four most recent English language references read as follows:

Ref.1: A. Garner, P. Green, R. Harper, F. Pegg. J. Inst. of Petrol., Vol.39, 278, 1953.

Ref. 2: Proc. Inst. Mech. Eng., Vol. 168, No. 3, 1954.

Ref. 4: P. Lloid, R. Probert. Proc. Inst. Mech. Eng., Vol. 163, 206, 1950.

Ref. 9; H. King, H. Nutt. Trans. ASME, Vol. 78, No. 1, 185-196, 1956.

Card 4/4

34255 8/114/62/000/002/002/004 E194/E955

11.0140 26.2120 AUTHORS:

Losikov, B.V., Professor, Doctor of Technical

Sciences, Fat yanov, A.D., Engineer, Mikulin, Yu.V., Engineer and Aleksandrova, L.A., Candidate of

Technical Sciences

TITLE:

An investigation of the influence of combustion products of sulphurous distillate fuels on the cor-

structional materials of gas turbines

PERIODICAL:

Energomashinostroyeniye, no.2, 1962, 34-36

The use of gas turbines is to be considerably extended and they will be required to run on fuel containing about 1% sulphur. It was accordingly of importance to study the influence of fuel combustion products on the corrosion of turbine parts. In principle both high and low temperature corrosion might occur, but the former is the more probable in gas turbines. The tests were made on a small laboratory combustion chamber with a fuel consumption of about 1 kg per hour in which were placed specimens made of sheet material, discs and runner blades of gas turbines. The tests were made with diesel fuel containing from 0.2 to 1.6% sulphur, Card(1/5)

An investigation of the ...

S/114/62/000/002/002/004 E194/E955

taking as a standard the low-sulphur diesel fuel grade AC (DS) to standard FOCT 4749-49 (GOST 4749-49) containing 0.2% sulphur, which is currently used in gas turbines. Corrosion was assessed by weighing the specimens. Before weighing they were cleaned electrolytically in a molten bath of 40% Na2CO3 and 60% NaOH at a temperature of 500-550°C with a current density of 0.25 A/cm<sup>2</sup>. In the first series of tests measurements were made of the corrosion resistance of alloys exposed to corrosion products of sulphurous fuels. The exposures were made in steps of ten hours using steel based on iron (grade >N 481 (EI 481)) and on nickel (grade >N 4375 (EI 437B)) as compared with an ordinary steel grade 10 exposed for 50 hours at a temperature of 650°C, The nickel alloy was practically uncorroded at this temperature; there was appreciable corrosion of the iron-based alloy; and the steel grade 10 was considerably corroded. With steels based on iron it is found that increasing the sulphur content of the fuel may reduce the rate of corrosion. This was confirmed on another iron-based steel, grade 2X13 (2 Kh 13). Curves of corrosion loss as functions of temperature

Card 2/5

An investigation of the ...

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in combustion products of fuels containing 0.2 and 1% sulphur were plotted for nickel-based steels grades EI 437B, 3M 602 (EI 602) and 34.435 (EI 435) and also for a number of other steels grades EI 481, 3X13 (3 Kh 13), 9M 417 (EI 417), 9M 612 (EI 612), 9M 607, (EI 607), 3M 617 (EI 617) and others. The results show that the corrosion resistance of the steels diminishes above a temperature of 600-700°C for iron-based steels and above 750-800°C for nickelbased steels. As sea-water might enter the fuel or the combustion air of marine gas turbines, admixtures of salt water were made to the combustion products. When salt water was present in the air to the extent of 1% weight of the fuel, the corrosion of alloys by combustion products was higher with sulphurous fuels than in low If the amount of salt water is reduced to 0.3% there is considerable reduction in the corrosion loss with sulphurous diesel fuel. As turbines may operate intermittently tests were made of exposure to combustion products followed by exposure to normally moist air. Under the test conditions used the iron-based steels (EI 481, 1X18H9T (1 Kh 18N9T), 3 Kh 13 and 2 Kh 13) and nickel-based steels (EI 437 B) behave similarly in combustion

Card 3/5

An investigation of the ...

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34255 \$/114/62/000/002/002/004 E194/E955

products of fuels containing 0.2 and 1% sulphur. When the sulphur content is increased to 1.4%, the corrosion of the iron-based steels increases quite rapidly, whilst that of the nickel-based does not. It is concluded that the combustion products of sulphurous fuels containing from 0.2-1% sulphur have practically identical corrosivity to steels based on iron and to those based on nickel. If the sulphur content is increased to 1.4-1.6% there is more corrosion. On a number of steels (for instance grades EI 481 and 2 Kh 13) the presence of low-humidity air in the combustion chamber causes the combustion products of sulphurous fuels to somewhat retard the corrosion process as compared with the products of low sulphur fuel, apparently because a protective sulphide film forms on the metal surface. Alternate action of combustion products and moist air, which corresponds to actual corrosion conditions in gas turbines, increases the corrosion of the steels by a factor of 2-3 for fuels containing 1.4-1.5%

Card 4/5

An investigation of the ...

3\1255 S/114/62/000/002/002/004 E194/E955

sulphur as compared with fuels containing 0.2-1% sulphur. There are 6 figures, 3 tables and no references.

X

Card 5/5

s/065/62/000/004/004/004

E194/E184

**AUTHORS:** 

Fat'yanov, A.D., Mikulin, Yu.V., and Aleksandrova. L.A.

TITLE:

Assessment of the deposit forming tendencies of high sulphur distillate fucls in a model combustion chamber

PERIODICAL: Khimiya i tekhnologiya topliv i masel,

no.4, 1962, 56-59

Diesel fuel currently produced from high sulphur Eastern crudes is more aromatic than corresponding fuel from low sulphur crudes. Such distillate fuels are widely used in gas turbines where deposit formation is a nuisance and high aromatic content is known to promote deposit formation. Accordingly, deposit formation tests were made in a laboratory combustion chamber rig described by N.A. Ragozin in his book (Ref.1: Topliva dlya vozdushno-reaktivnykh dvigateley (Fuel for Aviation Jet Engines), Gostoptekhizdat, 1956). contents in the range 0-0.77% and aromatic content in the range 6.45-23.6% were prepared by blending available fuels or by acid treatment. All the fuels were of similar viscosity and gravity. Card 1/3

Assessment of the deposit forming... \$/065/62/000/004/004/004

compared with low sulphur fuel. It is concluded that fuels with up to 0.9% sulphur and up to 25% aromatics do not cause appreciable deposit formation on nozzles or in the combustion chamber.

There are 4 figures and 4 tables.

Card 3/3

LOSIKOV, B.V., doktor tekhn.nauk, prof.; FAT'YANOV, A.D., inzh.;
MIKULIN, Yu.V., inzh.; ALEKSANDROVA, L.A., kand.tekhn.nauk

Studying the effect of products of combustion of distillation sulfurous fuels on the structural materials of gas turbines.
Energomashinostroenie 8 no.2:34-37 F '62. (MIRA 15:2)

(Diesel fuels--Testing) (Steel--Corrosion)

ACCESSION NR: AP4017575

\$/0065/64/000/003/0058/0062

AUTHOR: Losikov, B. V.; Fat'yanov, A. D.; Aleksandrova, L. A.; Golovistikov, I. V.; Berezina, R. M.

TITLE: Oils for gas turbine installations

SOURCE: Khimiya i tekhnol. topliv i masel, no. 3, 1964, 58-62

TOPIC TAGS: oil, oil antioxidant, antifriction additive, gas turbine oil, sionol, butyl phenol, pentachloro diphenyl, sovol

ABSTRACT: The purpose of the work was to find an all-purpose oil for the lubrication of both bearings and the reducer of a gas turbine. It should have low viscosity and good antioxidant and antifriction properties (no sediments formed). The choice was a transformer oil which was tested with a number of additives to provide the above properties. After ext msive experiments, the authors found that the addition of ionol (4-methyl-2,6-di-tert-butylphenol) in a proportion of 0.2-0.7% increases oil stability at 170-200C and gives incomparably better results as an antioxidant than tributyl-, triphenyl- and

Card 1/2

ACCESSION NR: AP4017575

tricresyl phosphates (sediment reduced from 0.9 to 0.1%). It was further found that the addition of 1% sovol (pentachlorodiphenyl), a chemically stable and fully inert compound, raises the anti-wear (antifriction) properties of the oil to the level of the MK-22 oil (antifriction) properties of the oil to the level of more (critical load 45 and 50 kg, respectively). The addition of more than 2% sovol does not improve the anti-wear property. Both additives are compatible. Laboratory tests were verified by an actual tives are compatible. Laboratory tests were verified by an actual turbine run. Oil for gas turbines with ionol and sovol additives is at present manufactured according to the GOST 10289-62 standard. Orig. art. has: 4 figures and 4 tables.

ASSOCIATION: none

SUBMITTED: 00

DATE ACQ: 23Mar64

ENCL: 00

SUB CODE: CH, FL

NO REF SOV: 000

OTHER: 000

Card 2/2

LOSIKOV, B.V.; FAT'YANOV, A.D.; ALEKSANDROVA, L.A.; BEREZINA, R.M.

Separate quantitative determination of SO<sub>2</sub> and SO<sub>3</sub> in the extrast gases of engines. Knim. 1 tekh. topl. 1 maseI 9 no.62
44-47 Je'64 (MIRA 17:7)

LOSIKOV, B.V.; FAT'YANOV, A.D.; ALEKSANDROVA, L.A.; GOLOVISTIKOV, I.V.;
BEREZINA, R.M.

Lubricants for gas-turbine systems. Khim. i tekh. topl. i
masel 9 no.3:58-62 Mr'64 (MIRA 17:7)

8/0020/64/156/002/0372/0374 ACCESSION NR: AP4036724

AUTHOR: Kurilenko, A. I.; Smetanina, L. B.; Aleksandrova, L. B.; Shiryayeva, G. V.;

Karpov, V. L.

TITLE: Modification of the surface properties of grafted polystyrene caprone fibers

SOURCE: AN SSSR. Doklady\*, v. 156, no. 2, 1964, 372-374

TOPIC TAGS: polystyrene, caprone fiber, polymer, gamma radiation, polyester, epoxoid, styrol sorption, styrol desorption, fiber resin, resin surface tension

ABSTRACT: The authors studied the effect of polystyrene grafts on caprone fibers using an industrial polyester, PN-1, and epoxoids. The grafting polymerization was initiated by Co60 y-radiation employing a method which first required exposure under vacuum and then was carried out in a gas phase. This process also provided for the development of homopolymers. Four experiments were performed. The results are presented in graphs showing the kinetics of destroyed radicals in caprone fibers, the kinetics of the sorption and desorption of styroles in caprone fibers, the influence of grafted polystyrenes on the wettability of fiber resins, and the influence of grafted polystyrenes on the adhesion of resins to caprone fibers. The surface tension of the resin in each of the experiments was constant and indicated

CIA-RDP86-00513R000100910003-7" APPROVED FOR RELEASE: 03/20/2001

KURILENKO, A.K.; ALEKSANDROVA, L.B.

Determination of the contact angle in fiber wetting. Khim. volok. no.3:65-67 '65. (MIRA 18:7)

1. Nauchno-issledovatel'skiy fiziko-khimicheskiy institut im. Karpova, Moskva.

ACC NRI AP		T)		T D Vousie V T	
AUTHORS: K	urilenko, A. I.; S	metanina, L. V.	Aleksandrova,	L. B.; Karpov, V. L.	45
ORG: Branc	h of the Physico-C	hemical Institu	te im. L. Ya. Ka	rpov (Filial fiziko-	· 'B
khimichesko	go instituta)	1	.5	15	
TITLE: Gra	ft polymerization he series "Modific	of atyrene on cation of proper	aprone and lavsa ties of highly o	n fibers /First corriented fibers by g	raft
polymerizat	ion of vinyl monom	ers <u>"</u> 7			
SOURCE: Vy	sokomolekulyarnyye	soyedineniya,	v. 7, no. 11, 19	65, 1935–1940	
				mer, polymerization	
I. Kurilenk (Dokl. AN S caprone and	o, L. B. Smetanina SSR, 156, 372, 196 Llavsan fibers.	i, L. B. Aleksan 54) and to study The polymerizati	the graft polymon was initiated	the work published ryayeva, and V. L. erization of styren by a preliminary i	e on rradia-
tion of the fibers to t	fibers in vacuum the monomer vapors experimental rest	by Co <sup>60</sup> %-radi or by direct in alts are represe	ation and subsect radiation of the ented in terms of	quent exposure of the fibers in the mono the fractional wei	mer -
increase of	the fibers	$\frac{\sqrt{P} - \frac{P - i}{P_0}}{P_0}$	- 100%,		2
Card 1/2			IDC: 66.095.2	26+678 <b>.</b> 674+678 <b>.</b> 675+6	578.746

